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DERWENT-WEEK: 200554

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TITLE: Portable microstrip array antenna has radome, whose distance with central and peripheral sections of antenna is maintained at specific values

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PATENT-FAMILY:

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APPLICATION-DATA:

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ABSTRACTED-PUB-NO: JP 2001127523 A

BASIC-ABSTRACT:

NOVELTY - A radome (10) surrounds the microstrip antenna (9), such that distance between radome and central, peripheral sections of antenna is $\lambda/2$ and $\lambda/4$ of the center frequency of antenna, respectively. The radome is curved towards the peripheral section of antenna, so that the interval between radome and antenna at the portion between the center and peripheral sections of antenna, is between $\lambda/2$ and $\lambda/4$.

USE - Portable microstrip array antenna with curved radome.

ADVANTAGE - Highly efficient radiation of power by antenna is attained, as the curved surface of radome reduces the degradation of the excitation amplitude and phase. Attains size and weight reduction and improves productivity.

DESCRIPTION OF DRAWING(S) - The figure shows the schematic block diagram of microstrip array antenna with the radome.

Microstrip antenna (9)

Radome (10)

CHOSEN-DRAWING: Dwg.1/10

TITLE-TERMS: PORTABLE MICROSTRIP ARRAY ANTENNA RADOME DISTANCE CENTRAL PERIPHERAL SECTION MAINTAIN SPECIFIC VALUE

DERWENT-CLASS: W02

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